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(71) Applicant (for FR only): **SERVICES PETROLIERS SCHLUMBERGER** [FR/FR]; 42, rue Saint-Dominique, F-75007 Paris (FR).

(71) Applicant (for all designated States except BF, BJ, BR, CA, CF, CG, CI, CM, CN, CZ, FR, GA, GB, GN, GQ, GW, IN, JP, LT, MA, ML, MR, NE, NL, OM, SD, SN, TD, TG, TN, TR, TT, US, VN): **SCHLUMBERGER TECHNOLOGY B.V.** [NL/NL]; Parkstraat 83-89, NL-2514 JG The Hague (NL).

(71) Applicant (for GB, JP, NL only): **SCHLUMBERGER HOLDINGS LIMITED**; P.O. Box 71, Craigmuir Chambers, Road Town, Tortola (VG).

(71) Applicant (for CA only): **SCHLUMBERGER CANADA LIMITED** [CA/CA]; 525 - 3rd Avenue S.W., Calgary, Alberta T2P 0G4 (CA).

(71) Applicant (for BR only): **SCHLUMBERGER SURENCO S.A.** [PA/PA]; 8 Calle Aquilino de la Guardia, Panama City (PA).

(71) Applicant (for BF, BJ, CF, CG, CI, CM, CZ, GA, GN, GQ, GW, IN, LT, MA, ML, MR, NE, SN, TD, TG, TN, VN only): **PETROLEUM RESEARCH AND DEVELOPMENT N.V.** [NL/NL]; De Ruyterkade 62, Willemstad (AN).

(71) Applicant (for OM, SD, SY, TR only): **SCHLUMBERGER OILFIELD ASSISTANCE LIMITED**; Craigmuir Chambers, Road Town, Tortola (VG).

(71) Applicant (for TT only): **SCHLUMBERGER SERVICES LIMITED**; P.O. Box 438, Tortola (VG).

(71) Applicant (for CN only): **SCHLUMBERGER OVERSEAS S.A.** [PA/PA]; 8 Calle Aquilino de la Guardia, Panama City (PA).

(71) Applicant (for EG only): **SCHLUMBERGER SEACO INC.** [PA/PA]; 8 Calle Aquilino de la Guardia, Panama City (PA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **IMASATO**, Yutaka [JP/US]; Schlumberger Sugar Land Product Center, 155 Industrial Boulevard, MD-1, Sugar Land, TX 77478 (US). **ALVAREZ**, Francis [FR/FR]; 12, Square Leon Blum, F-92800 Puteaux (FR). **MAGNOUX**, Josiane [FR/FR]; 46 rue de l'Orme Gras, F-91640 Vaugrigneuse (FR).

(74) Agent: **MENES**, Catherine; Etudes & Productions Schlumberger, 1, rue Henri Becquerel - B.P.202, F-92142 Clamart Cedex (FR).

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(54) Title: **ACQUISITION AND CONTROL SYSTEM**

(57) Abstract: An acquisition and control system for use with devices installed in an underground well, comprising: an installation designer; a data server including a database of device specific and installation-specific data; an application builder; and a control and acquisition system; wherein the installation designer comprises a system for defining a hardware and software functional configuration for the devices installed in the well, the functional configuration being provided to the data server; the application builder comprises a system for obtaining software components from the data server and configuring such components to correspond to the functional configuration defined by the installation builder, the application builder outputting the configured software components to the control and acquisition system; and the control and acquisition system installs the configured software components in a data communication and processing environment connected to the devices installed in the well so as to control operation of the devices and to acquire data from the devices in accordance with the functional configuration.

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